AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1.   (Currently Amended) A method of synthesizing speech using discourse function level prosodic features comprising the steps of:

determining a theory of discourse analysis from a plurality of theories of discourse analysis ~~based on the speech to be synthesized~~;

determining ~~output information~~ input text;

determining discourse functions in the ~~output information~~ input text, the discourse functions being determined based on a mapping between basic discourse constituents of the determined theory of discourse analysis and a plurality of discourse functions;

determining a model of discourse function level prosodic features; and

determining adjusted synthesized speech output based on the discourse functions <u>in the input text</u> and the model of discourse function level prosodic features.

2.   (Previously Presented) The method of claim 1, wherein the discourse functions are determined based on the determined theory of discourse analysis.

3.   (Original) The method of claim 2, in which the theory of discourse analysis is at least one of: the Linguistic Discourse Model, the Unified Linguistic Discourse Model, Rhetorical Structures Theory, Discourse Structure Theory and Structured Discourse Representation Theory.

2

4.   (Currently Amended) The method of claim 1, wherein the ~~output information is at least one of text information and application output information~~ input text is dynamically generated by another application.

5.   (Currently Amended) The method of claim 1, wherein determining the adjusted synthesized speech output further comprises the steps of:

determining a synthesized speech output based on the ~~output information~~ input text;

determining discourse function level prosodic feature adjustments; and

determining the adjusted synthesized speech output based on the synthesized speech output and the discourse level prosodic feature adjustments.

6.   (Previously Presented) The method of claim 1, wherein the model of discourse function level prosodic features is a predictive model of discourse functions.

7.   (Original) The method of claim 6, in which the predictive models are determined based on at least one of: machine learning and rules.

8.   (Original) The method of claim 1, in which the prosodic features occur in at least one of a location: preceding, within and following the associated discourse function.

9.   (Original) The method of claim 1, in which the prosodic features are encoded within a prosodic feature vector.

10.   (Original) The method of claim 9, in which the prosodic feature vector is a multimodal feature vector.

11.   (Currently Amended) The method of claim 1, in which the discourse ~~function is~~ functions include an intra-sentential discourse function.

12.   (Currently Amended) The method of claim 1, in which the discourse ~~function is~~ functions include an inter-sentential discourse function.

13.   (Currently Amended) A method of synthesizing speech using discourse function level prosodic features comprising the steps of:

determining ~~output information~~ input text;

determining discourse functions in the ~~output information~~ input text based on a contextually aware theory of discourse analysis using a mapping between basic discourse constituents of the contextually aware theory of discourse analysis and a plurality of discourse functions;

determining a model of discourse function level prosodic features; and

determining adjusted synthesized speech output based on the discourse functions and the model of discourse function level prosodic features.

14.   (Original) The method of claim 13, in which the context is at least one of:

semantic, pragmatic, and syntactic context.

15.   (Currently Amended) A system for synthesizing speech using discourse function

level prosodic features comprising:

an input/output circuit for retrieving ~~output information~~ input text; and

a processor that determines a theory of discourse analysis from a plurality of theories of

discourse analysis based on the speech to be synthesized; determines discourse functions in the

~~output information~~ input text based on a mapping between basic discourse constituents of the

determined theory of discourse analysis and a plurality of discourse functions; determines a

model of discourse function level prosodic features; and which determines adjusted synthesized

speech output based on the discourse functions and the model of discourse function level

prosodic features.

16.   (Previously Presented) The system of claim 15, wherein the discourse functions

are determined based on the theory of discourse analysis.

17.   (Original) The system of claim 16, in which the theory of discourse analysis is at

least one of: the Linguistic Discourse Model, the Unified Linguistic Discourse Model, Rhetorical

Structures Theory, Discourse Structure Theory and Structured Discourse Representation Theory.

18.   (Currently Amended) The system of claim 15, wherein the ~~output information is at least one of text information and application output information~~ input text is generated by another application.

19.   (Currently Amended) The system of claim 15, wherein the processor determines a synthesized speech output based on the ~~output information~~ input text; determines discourse function level prosodic feature adjustments; and determines adjusted synthesized speech output based on the synthesized speech output and the discourse level prosodic feature adjustments.

20.   (Original) The system of claim 15, wherein the model of discourse function level prosodic features is a predictive model of discourse functions.

21.   (Original) The system of claim 20, in which the predictive models are determined based on at least one of: machine learning and rules.

22.   (Original) The system of claim 15, in which the prosodic features occur in at least one of a location: preceding, within and following the associated discourse function.

23.   (Original) The system of claim 15, in which the prosodic features are encoded within a prosodic feature vector.

24.   (Original) The system of claim 23, in which the prosodic feature vector is a multimodal feature vector.

25.   (Original) The system of claim 15, in which the discourse function is an intra-sentential discourse function.

26.   (Original) The system of claim 15, in which the discourse function is an inter-sentential discourse function.

27.   (Currently Amended) A system for synthesizing speech using discourse function level prosodic features comprising:

an input/output circuit for retrieving ~~output information~~ input text; and

a processor that determines discourse functions in the ~~output information~~ input text based on a context aware theory of discourse analysis using a mapping between basic discourse constituents of the contextually aware theory of discourse analysis and a plurality of discourse functions; determines a model of discourse function level prosodic features; and which determines adjusted synthesized speech output based on the discourse functions and the model of discourse function level prosodic features.

28.   (Original) The system of claim 27, in which the context is at least one of: semantic, pragmatic, and syntactic context.

29.   (Currently Amended) A carrier wave encoded to transmit a control program, useable to program a computer to synthesize speech using discourse level prosodic features, to a device for executing the program, the control program comprising:

instructions for determining a theory of discourse analysis from a plurality of theories of discourse analysis based on the speech to be synthesized;

instructions for determining ~~output information~~ input text;

instructions for determining discourse functions in the ~~output information~~ input text, the discourse functions being determined based on a mapping between basic discourse constituents of the determined theory of discourse analysis and a plurality of discourse functions;

instructions for determining a model of discourse function level prosodic features; and

instructions for determining adjusted synthesized speech output based on the discourse functions and the model of discourse function level prosodic features.

30.   (Currently Amended) Computer readable storage medium comprising: computer readable program code embodied on the computer readable storage medium, the computer readable program code usable to program a computer to synthesize speech using discourse level prosodic features comprising the steps of:

determining a theory of discourse analysis from a plurality of theories of discourse analysis based on the speech to be synthesized;

determining ~~output information~~ input text;

determining discourse functions in the ~~output information~~ input text, the discourse

functions being determined based on a mapping between basic discourse constituents of the

determined theory of discourse analysis and a plurality of discourse functions;

determining a model of discourse function level prosodic features; and

determining adjusted synthesized speech output based on the discourse functions and the

model of discourse function level prosodic features.